



Dr. W. C. DeMarcus



Barbara DeMarcus

Former Y-12er Will Write Chapter For New Encyclopedia Of Physics On Planet Makeup

Dr. Wendell Carden DeMarcus, a former Y-12er and now in charge of Theoretical Physics for the Operations Analysis Division of the K-25 Plant of Union Carbide Nuclear Company, will be a contributor to a new edition of the Encyclopedia of Physics, probably the world's leading authority on the subject. Dr. DeMarcus has accepted an invitation from the publishers of the encyclopedia to write a chapter on "Constitution of the Planets."

Dr. DeMarcus is well known in Y-12, having worked here from

June, 1951, to January, 1953, when he was transferred to the K-25 Plant. He was with what now is known as the SF Control Department.

Wife Is Language Specialist

His wife, Barbara DeMarcus, is a Y-12er, employed as a stenographer in the Beta Two Department. She is the former Barbara Ann Bond, of Laurel, Miss., and was married to Dr. DeMarcus in September, 1954. She has been in Y-12 for four years with the exception of a few months soon after her marriage. Mrs. DeMarcus is a

language specialist, having received her B.A. Degree in French and Spanish from Mississippi Southern College in 1950 and a M.S. Degree in Spanish at the University of Tennessee in 1951.

Some of the world's leading scientists will be contributors to the Encyclopedia of Physics, which will be published in Germany with the title "Handbuch der Physik." As a companion chapter to that to be written by Dr. DeMarcus will be one on "Planetary Atmospheres and Surfaces," by H. C. Urey, of the United States; and A. Dollfus, of France.

Other contributors include such outstanding specialists as W. Pauli, of Zurich, Switzerland; Hans Bethe, of the United States; H. S. W. Massey, of Great Britain; Glenn T. Seaborg, another American; and Sir Harold Spencer, Astronomer Royal of Great Britain. **Will Consist of 54 Volumes**

The new edition of the Encyclopedia of Physics, which will consist of approximately 54 volumes, will replace the old handbook published in 1926 by Springer-Verlag. This older work, a comprehensive presentation of the various branches of physics, was considered a great achievement two decades ago. The new encyclopedia will present the status of physics at the mid-century point and also will indicate the relative participation of various nations and individual researchers in new developments.

During the past 20 years, material which must be included in such an encyclopedia has multiplied many times. The field of atomic physics has undergone important developments and in nuclear physics vast new areas also have opened up. In the classical branches of physics a great number of basic advances also have been made and it is these enormous strides that have been made that makes it necessary to replace the old handbook by an entirely new series.

German Physicist Is Editor

The new encyclopedia will be edited by the German physicist, S. Flugge, of Marburg. Every effort will be made to complete the work in three years, with the first vol-

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Y-12
UCNC

THE BULLETIN

A NEWSPAPER BY AND FOR Y-12 EMPLOYEES OF UNION CARBIDE NUCLEAR COMPANY

A DIVISION OF UNION CARBIDE AND CARBON CORPORATION

Vol. 9, No. 34

OAK RIDGE, TENNESSEE

Wednesday, August 24, 1955



HERE ARE Y-12'S TWO MODERN FIRE ENGINES THAT GIVE THE PLANT ample fire protection. At left is a 1948 model Howe pumper with a 750 gallon per minute capacity while at the right is the 1951 model General just obtained from the Atomic Energy Commission Savannah River Plant. The men are, from left, Fire Truck Operator C. C. Butler, Fire Department Chief W. O. Elam and Fire Truck Operator J. W. Doane.

New Fire Truck Placed Into Service Gives Y-12 Best Protection In History Of Plant

1,000 Gallon Capacity Pumper Obtained From AEC Plant At Aiken, S. C., To Replace Obsolete Model

With the placing into service last week of a high-powered pumper, the Y-12 Fire Department now has its most efficient equipment in the history of the plant. Chief W. O. Elam declared after tests of the new fire engine that as far as firefighting is concerned the men and machines of Y-12 are on a par with any Union Carbide Nuclear Company plant as far as ability and pumping power are concerned.

Arrival of the new machine, obtained from the Savannah River Plant of the Atomic Energy Commission at Aiken, S. C., gives Y-12 two modern and powerful firefighting units. The new machine replaces an old Ward-LaFrance engine of 1942 vintage that has become obsolete.

Has 295 H.P. Motor

The new engine is a 1951 model constructed by the General Truck Co., of Detroit and it has a capacity of pumping 1,000 gallons of water per minute at 150 pounds pressure. This is considered ample to cope with almost any type of fire. However, where long distance hosing is required or extra penetrating power required the pressure can be raised to 200 pounds with a flow of 750 gallons per minute or to 250 pounds with a flow of 500 gallons per minute.

The power plant of the new engine is a 295 horsepower Hall-Scott motor and the water flow is handled by a Waterous pump. **150 Gallon Booster Carried**

The new engine also is equipped with a 150 gallon booster tank. It carries one 40-foot ladder, one 20-foot ladder and its normal equip-

ment also includes 1,250 feet of hose.

Y-12's other fire engine is a 1948 model Howe machine with a 750 gallon per minute capacity. It has a 190 horsepower Waukesha motor and a Waterous pump.

The new engine has qualified for all National Board of Underwriters standards for such equipment, as has the older machine.

Fire Truck Operator J. W. Doane was sent by Y-12 to Aiken to drive the new pumper back to Oak Ridge and the approximately 350-mile trip was made in 13½ hours.

Large Attendance Expected At B Shift Picnic Today

The second picnic-outing of the summer season by Y-12 employees on the B Shift is being held today, Wednesday, August 24, at Cove Lake State Park, near Caryville. A large crowd of B Shifters and members of their families were expected to take part in the festivities, beginning at 10 a.m. Dinner was to be spread family style at noon.

MORE MEN IN U.S.

The Statistical Abstract of the United States points out that there are 1,776,681 more men than women in the country. The reverse was true 75 years ago.

UCC Will Build New 41-Story Home Office

Site In Grand Central Area Is Convenient

Morse G. Dial, President, Union Carbide and Carbon Corporation, announced today that the Corporation has arrived at an agreement to buy an option held by the New York Central Railroad, which will enable Union Carbide to purchase the long-term leasehold on the entire block between Park and Madison Aves., and 47th and 48th Sts., in New York City.

Attractive Building Planned

Mr. Dial said that Union Carbide proposes to erect a modern 41-story building on that site for the new home offices of the Corporation and its Divisions and Subsidiaries. The architectural firm of Skidmore, Owings and Merrill has prepared and submitted preliminary plans and sketches for an attractive building.

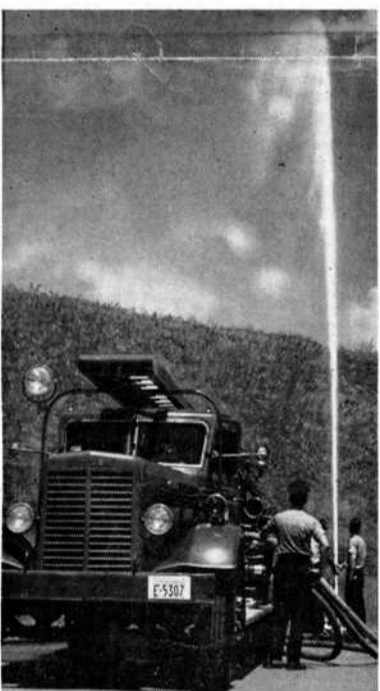
The location of the proposed Union Carbide Building in the Grand Central Area is convenient to transportation for city and out-of-town visitors, as well as for the more than 3,000 employees of Union Carbide and its Divisions and Subsidiaries whose offices will be located in the new building.

All features needed for the efficient conduct of the Corporation's business, and for the convenience and comfort of employees, will be incorporated in the new building. Offices will be fully air-conditioned, and advantage will be taken of the site to provide a maximum of natural light. Employee service facilities will include a completely-equipped medical unit, lounge areas, and an employees' cafeteria.

While the terms of the leasehold agreement with the New York Central were not announced, it is anticipated that the building project will involve an investment of approximately \$40,000,000.

It is hoped that through prompt possession of the site, and by well-planned demolition and construction schedules, the new building can be made ready for occupancy some time in 1958.

The new building will permit the consolidation in one location of the home offices of the Corporation, and its Divisions and Subsidiaries, including Bakelite Company, Carbide and Carbon Chemicals Company, Carbide and Carbon Realty Company, Electro Metallurgical Company, Linde Air Products Company, National Carbon Company, Pyrofax Gas Corporation, Union Carbide International Company and Union Carbide Nuclear Company.



SQUIRTING A POWERFUL STREAM of water nearly 100 feet into the air at a rate of 1,000 gallons per minute is Y-12's new fire engine shown above during tests last week. In the foreground at the control valves of the machine is Fire Truck Operator J. W. Doane while manning the multiversal nozzle in the background are Fire Truck Operators C. C. Butler and Floyd Hyatt.

SAFETY SCOREBOARD

The Y-12 Plant Has
Operated
62 Days Or
1,991,282 Man Hours
(Unofficial Estimate)
Without A Lost Time
Accident
Through August 21



NEW HOME OFFICES FOR UNION Carbide and Carbon Corporation will be erected on the entire block between Park and Madison Avenues and 47th and 48th Streets, New York. The 41-story building will be fully air-conditioned and will include a completely-equipped medical unit, and employees' lounge areas and cafeteria. The exterior will make extensive use of stainless steel.

The Bulletin

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Former Y-12er To Pen Encyclopedia Chapter

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ume appearing this year. Authors invited to contribute may submit their material in English, French or German, since the internationalization of science has made a knowledge of these languages necessary for the physicist.

The chapter to be written by Dr. DeMarcus will appear in Volume 52 and is scheduled for publication in 1957.

Dr. DeMarcus is a native Tennessean, being born in Anderson County in 1924. He graduated from the old Knoxville High School and received his B.S. Degree in physics in 1947 at the University of Kentucky. He obtained his Master's and Ph.D. Degrees from Yale University.

Several Papers Published

His previously published research on the planets include his thesis (Yale, 1951) "Theoretical Pressure Density Relations With Applications to the Constitution of the Planets;" a paper on "Atmosphere of Hydrogen Planets," presented before the American Astronomical Society in January, 1953; a paper on "Instability of Small Cores in Rotating Planets," published in the Astronomical Journal in April, 1954; and a paper now in course of preparation on the "Constitution of Jupiter and Saturn." This last research is being sponsored by the National Science Foundation and will be submitted to the German scientific publication, Zeitschrift fur Astrophysik.

10 Years Service

Congratulations to the following Y-12 employees who will complete 10 years of Company Service within the next few days:

Wilbert Hamby, Timekeeping, August 28.
Ernest R. Bailey, General Utilities, August 29.

Playhouse Tryouts Slated For This Coming Week End

Y-12ers are invited to attend tryouts by the Oak Ridge Community Playhouse on next Sunday, Monday and Tuesday, August 28, 29 and 30, for the group's initial offering of the coming season. "The Caine Mutiny Court Martial." The tryouts will be held at the Playhouse headquarters on Robertsville Road at 8 p.m. Candidates are asked to report at that time and place or to communicate with Paul Ebert, Playhouse director, at Oak Ridge telephone 5-6195 or 5-1224.

"The Caine Mutiny Court Martial," one of the most dramatic plays of the times, will be staged October 6, 7 and 8. The play calls for an all male cast and candidates for roles need not be Playhouse members.

Hold yourself responsible for a higher standard than anyone else expects of you.



One of our scouts reported that during a recent heat wave he passed a church with the sign: "You think it's hot HERE?" So with that hot stuff stewed away—come on, kiddies, let's rock 'n roll away with the strictly—but strictly—confidential news about youse folks—

ALLOY

E. F. Fleischman and family, Colex Operations, trabbled 2,020 miles up and down the East and West Coasts of Florida on vacation tibe—(seems air conditioning got the best of them . . . **J. H. Hammond** is in Atlantic City and **K. L. Elins** at Dayton, Ohio.

Leroy Holbert, the Eager Beaver of Beta Four, is putting the finishing touches on his new house over Powell way . . . **Robert Slate** and family are visiting kin folks in Bristol . . . **J. P. Mullenax** and all the little Mullenaxes are up in Michigan . . . **Gordon Grooms** had a peaceful vacation at home in Knoxville . . . **Monroe Stout** is on a tri-state vacation in Kentucky, Indiana and Ohio . . . **Peggy Sigmon** plans to go over to Myrtle Beach, S. C. to see if Hurricanes Connie and Diane left anything in the way of vacation facilities . . . Pals wonder what caused **M. L. Sweet**, third-sacker for the Beta Four ball club, to take his eyes off a grounder long enough for it to bust a finger . . . A speedy recovery wish is sent the wife of **Earl Thomas**—she is confined to her home in Loudon after being in a Nashville hospital.

MECHANICAL OPERATIONS

Mechanical Operations Division reports **O. W. Breedlove** vacationing in New York City . . . **G. A. Ware** went over to Kings Mountain, N. C. . . . **J. D. Bowlings**, **O. H. Dunaway** and **G. L. Day** are stay-at-homes . . . The Smokies lured **H. E. Dake** and **Carl Dorr**—but the latter is hanging around these parts for the golfing . . . **J. E. Johnson** is using home as home base for fishing operations . . . Get-well wishes to **G. Neal** and **B. E. Ward** and to **A. Berry**, greatly improved after a recent operation . . . The same goes for **W. C. Gordon**, recovering at home from an illness . . . **H. Crutchfield** and **F. L. Teno** are taking military training this week.

Mechanical Operations folks on J Shift enjoyed a spaghetti and meat ball supper at a Knoxville cafeteria a few nights back . . . Week-ender trips were by **P. L. McGinnis** and family to Douglas Dam and Gatlinburg . . . **J. J. Brock** went over to Fontana . . . **H. H. Specht** and family journeyed down to Atlanta . . . **E. E. Grissom** "just rested" at home in Knoxville last week and **C. P. McGhee** is vacationing at his new home on Lewis Road, Knoxville . . . **J. L. Donahue** is back from a family reunion at Dayton, Tenn.

C. W. Styles, C Mechanical Operations, is touring Alabama this week.

J. Claiborne, D Mechanical Operations, is vacationing to become acquainted with his new daughter, **Jeri Mae**, born last week weighing seven pounds . . . **C. E. Tilley** is back from a Virginia trip . . . **C. W. Stegall** is likewise after a two-week tour of the South . . . Others on the vacation boards, either coming or going, are **W. Z. Trimble**, **L. C. Burnette** and **J. C. Anderson** . . . Get-well wishes to **C. E. Day**, ailing at Oak Ridge Hospital . . . Also to the wife of **M. F. Hazelwood**.

The General Machine Shop has **J. H. Lauderdale** and family vacationing in Ft. Lauderdale (no relation) and Daytona Beach in sunny Florida . . . **H. E. Parrott** also is down in Daytona . . . **W. W. Chilcoat** is visiting his mother in Haleyville, Ala. . . . **C. P. Wilkins**

is over in South Carolina . . . **W. C. Collins** went to Murphy, N. C., and Atlanta . . . **W. J. Grigsby** is at home in Kingston . . . **E. R. Easterday** is trying the angling at Center Hill . . . **R. E. Lively** went to his home in Coalfield . . . **U. M. Oxford** also was a vacationer last week but was worried about his daughter, who underwent an appendectomy—so get-well wishes to her . . . Other vacationers unreported as to details include **M. H. Clayton**, **E. W. Smith**, **H. M. Russell**, **J. N. Brewer**, **W. C. King**, **H. A. Crawford**, **H. J. Ray**, **W. F. Sharp**, **L. I. Orr**, **L. E. Coling**, **J. P. Dillard**, **E. G. Gardner**, **G. A. Kirk**, **W. P. Ingle** and **Chuck Bolyard** . . . Get-well wishes to a long list of puny people, including **Gerald Lankford**, **H. M. Monday**, **F. D. West**, **L. D. Smith**, **H. C. Day** and **C. M. McCarley** . . . Congratulations to **W. L. Scruggs**, whose new son was born August 15 at Davis Hospital, Pine Bluff, Ark., weighing eight pounds, 12 ounces.

SUPERINTENDENTS

D. P. Anderson, A Shift Superintendent, is a Floridian for the week.

General Utilities sends get-well wishes to **J. W. Fox**—and welcomes **M. L. Stooksbury** back after recovering from an operation . . . Vacationers are hither and yon—**S. F. Fogle**, **R. L. Scarborough**, **J. O. Loy**, **A. H. Gough**, **Dewey Stevens** and **Eugene Clowers** are on the list.

INDUSTRIAL RELATIONS

Guard Department Chief **Miles Bradford** has just finished singing "My Old Kentucky (Ave.) Home, Good Night," and has moved into his new domicile over in Norris . . . **Lieut. J. H. Shoemaker** also was a vacationer last week . . . Rapid-recovery wishes to **J. W. Morgan**, who just underwent another serious operation; and **H. H. Neal**, in St. Mary's Hospital, Knoxville . . . **C. A. Wilson** is back after a spell of sickness.

Jean Chappell, Security, was and is (?) a vacationer.

CHEMICAL

Lots of travelling by Product Processing vacationers . . . **W. H. Hoose** went out to the Iowa tall corn country and then back to New York . . . **Margaret Haggard** jaunted up to Detroit, thence to Canada and New York . . . Keeping track of those folks, it wasn't possible to find the whereabouts of **George McNabb**, **Reed Atkins** and **M. A. Wheeler**.

MAINTENANCE

LaVaughn "Buck" Davis, Planning and Estimating is vacationing . . . **Dick Teed** brushed up on his "Squads Right" in military training at Ft. Benning, Ga.

Salvage has **W. C. Johnson** and **L. L. Wilcox** on vacation—and **T. W. Williams** has just returned.

Electrical Maintenance sends get-well wishes to the wife of **T. G. Crabtree**, who was seriously hurt in an Illinois automobile accident last week . . . Also to **H. G. Bingham**, still out sick . . . **J. C. "Ol' Eagle Eye" Ezell** is out West vacationing, probably finding some new targets for his unerring pistol . . . **W. S. Caruthers** is partaking of more peaceful activities in Middle Tennessee . . . Others off and around and about various and sundry places are **H. A. Sinclair**, **W. S. Arnold**, **H. T. Christie**, **V. B. Williams**, **W. D. Humphrey**, **J. S. Jones**, **C. M. Davis**, **E. Goff** and **Virgil Lovett**.

G. A. Anderson, of the Laundry, vacationed at home in Lenoir City.

H. W. Kirkland, Alpha Five Maintenance, is working on his Tellico Plains farm while vacationing . . . **G. H. LeQuire** is visiting some of his former co-workers up in Paducah, Ky. . . . **C. G. King**



FUN WAS UPPERMOST AT THE

C Mechanical Operations Department picnic July 30 at Big Ridge Park, as shown in these pictures taken by members of the party for The Bulletin. At top **C. A. Slaughter** presides at the bingo cage, the game providing a multitude of prizes for winners during the outing. Behind him are **Lyle K. Lankford** and **Mrs. Lankford**. A little bit of horseplay is shown in the middle picture with **K. W. Reynolds**, left, being certain that **C. A. Lively** is facing the camera, even if a headlock is needed. In the background are **Lois Hendricks**, **Mrs. H. E. Craig** and **Paul Suffridge**. At bottom is the inevitable picture of the main feature of any picnic—the big dinner—at which fried chicken, ham, potato salad, cheese pickles, cookies, watermelon and cold drinks were served. The E, F and G Groups in the department arranged the whingding, during which a softball game was won by F Group, which won a trophy. Most important, everyone had a big time and are eagerly awaiting the 1956 edition of the party.

is visiting relatives in Cleveland and Alliance, Ohio . . . **S. S. Hammond** is refreshing his military memories this week . . . **W. Jackson**, **M. Oldham, Jr.**, and **L. H. Taylor** are the department's vacation listings . . . **L. L. Brown** is entertaining his parents-in-law from Hutchinson, Kan., this week.

Alpha Four Maintenance sends get-well wishes to **E. L. Soard**, in Oak Ridge Hospital . . . Condolences are extended **B. R. Disney**, whose uncle died last week in Paducah, Ky. . . . **H. P. Pemberton** and **L. W. Cox** are vacationing.

F. R. Dagley, of Automotive Maintenance, is vacationing in Kokomo, Ind.

C. G. Hubbard, Research Services, is messing around in Mississippi.

A. M. Kirksey, Process Maintenance, is visiting kin folks in Georgia and Alabama . . . **F. B. Matthews** and family went to Florida . . . **R. F. Noah** is touring Yankee-land of the United States with a trip across to Canada . . . **A. L. Roberts** is vacationing in the Smokies and showing the sights to his daughter and family from Alabama . . . It is understood a Mometous Decision is necessary to determine the destination of **W. A. McFarland** for his vacation.

TECHNICAL

Health Physics is congratulating **J. P. McMillan** over becoming father of a son born last week . . . Get-well wishes to **Jerry Lambdin**

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Get-well wishes are extended the following Y-12 employees who recently were patients in the Oak Ridge Hospital:

E. L. Soard, Alpha Four Maintenance; **Bobby Lowery**, Production Inspection; **Thomas L. Hart**, Colex Operations; **Mrs. Will R. Kelly**, Planning and Estimating; **Audrey L. Donald**, Buildings and Grounds; **C. E. Harness**, Field Maintenance; **Carl E. Day**, F Mechanical Operations; **Horace M. Monday**, General Machine Shop; **J. E. Morgan**, Guard; **Delia Asbury**, Property; **Jerry Lambdin**, Health Physics.

Analytical Group To Hear Litkenhous

Dr. E. E. Litkenhous, of Vanderbilt University, Nashville, will be guest speaker at the "kick-off" meeting of the new season for the Analytical Group of the East Tennessee Section of the American Chemical Society tomorrow night, Thursday, August 25. The meeting will be at 8 p.m. in Room 18 of the Oak Ridge Institute of Nuclear Studies Training Building.

Dr. Litkenhous, "daddy" of the Litkenhous football rating system that has achieved considerable success in predicting game outcomes, will speak on the "Analytical Aspects of Football."

The speaker received his B.S. Degree in chemical engineering from the University of Louisville in 1930 and his master's degree one year later. He obtained his Ph. D. from the University of Minnesota in 1934 and was an assistant there for three years. After three years with the Goodyear Tire and Rubber Co., Akron, Ohio, he returned to the University of Louisville as professor of chemical engineering. In 1941 he joined Vanderbilt, where he now is head of the Department of Chemical Engineering and executive director of the Division of Industrial Research.

Industrial Engineering Course To Be Offered

Y-12ers interested in industrial engineering and management may enroll in classes on that subject to be conducted by the University of Tennessee, Division of University Extension, in Oak Ridge beginning next month. Completion of the course will bring a certificate from the university.

Subjects included in the course are Economics of American Industry, Industrial Statistics, Industrial Psychology, Production Analysis, Production Control, Quality Control and Industrial Resources.

Registration will be during the week of September 19 and classes will open during the week of September 26. Classes will be held once weekly at the Oak Ridge High School from 6 p.m. to 9 p.m.

Any Y-12 employee wishing further information on the course is urged to communicate immediately with **H. E. Alvey**, plant telephone 7904; or **Howard McCraw**, plant telephone 7954.



C League To Start Bowling September 14... Increased Interest Shown In Sport

Men, Women Sought For More Circuits

The second Y-12 plant bowling team to organize for the coming season, the C League, got its preliminary business out of the way last Friday and planned to begin alley activities on September 14 at the Central Alleys. Carl Frazier was elected secretary-treasurer

of the circuit and a president and vice president will be elected on the first night of bowling. Eight teams will comprise this loop.

Meanwhile the movement toward organization of more leagues and increased interest throughout the Y-12 Plant Area in bowling was in evidence last week. Several telephone calls were received by the Recreation Office seeking information on the sport and plans

for additional leagues and a number of Y-12ers sent in the blank published at the bottom of this page of The Bulletin indicating their desire to participate in the sport.

The Recreation Department, Room 221, Bldg. 9704-2, telephone 7751, is eager to provide any information and assistance needed by bowlers in forming more leagues or joining teams already org-

anized for the season. A telephone call or a personal visit is urged from anyone with these objectives.

The blank is being published again this week and probably next week for the convenience of bowlers wanting to get into action this season.

The appeal for response and indication of interest is not only addressed to men bowlers, but also to the keglerettes of the plant.

Shifts Are Expected To Organize Loops

It is known that there are many good women bowlers in Y-12 and several of them have expressed interest in forming either a league of their own or a mixed league of two-player teams.

Word is particularly desired from new employees who have not previously participated in plant bowling activities. Every effort will be made by the Recreation Department to assist them—as well as the veterans of the sport—in finding spots to play if requests are made.

It's easy to fill out that blank at the bottom of this page, which may be accompanied by a note if any further comment or suggestions are forthcoming from the signer.

Prospects are bright for formation of two or more shift leagues. Chairmen of shift recreation committees have been seen by the Recreation Department and plans laid for organizational meetings within the next few days. Shift employees are urged to communicate with their recreation committee chairman or members to get this ball rolling.

The Classic League, formerly the B League, will begin its alley activities September 18 with 12 teams getting into action. This "old-timer" of Y-12 bowling leagues has been one of the fastest circuits in Oak Ridge for several years and this season all of the teams of last season are back and ready to go.

Teams in the Classic League and their captains are the Cubs, Charley Greene; Rippers, Len Hart; Bumpers, Avery Kendig; All Stars, Paul Petretzky; Tigers, L. Sikes; Has Beens, Jack McLendon; Wasps, Tom Webber; Wolves, Frank Gragg; Rebels, George Riddle; Swingsters, H. Guinn; Playboys (formerly Bldg. 9211), D. Smith; and the Screwballs (formerly ADP), Herb Runge.

Ballenger-Cromer Hold Tennis Lead

Ballenger and Cromer remained on top of the Y-12 Doubles Tennis Ladder last week by repulsing the bid of Perry and Campbell by 6-3, 6-1. In another match Fisher and Rogers jumped from seventh place to fifth by beating the feminine team of Sue Strange and Lois Secrist, 6-1, 6-1. The women's outfit dropped from fifth to seventh as a result of the loss.

The ladder standings as of last Thursday are (1) Ballenger and Cromer, (2) Hackett and Thompson, (3) Perry and Campbell, (4) Beams and Horton, (5) Fisher and Rogers, (6) Scott and Jennis, (7) Strange and Secrist, (8) Taylor and Dake, (9) O'Kain and McGinnis, (10) Dabic and Stotko.

980 handicap. The outcomes place Teams No. 3 and 4 tied for first place with a 12-8 record and Teams No. 2 and 1 tied at 8-12.

The top scratch score of the August 16 matches was posted by J. C. Ezell, Team No. 3, with 275. The high handicap score was fired by W. H. Bender, of Team No. 1, with 290.276.

DORR, O'NEAL IN GOLF TOURNEY FINALS



A ROLLICKING FOURSOME OF GOLFERS IN THE Y-12 PLANT GOLF League at Oak Ridge is shown above. From left they are the teams of John Snyder and Harold Ratjen and Logan Emlet and Art Hines. The latter pair have led the league for the entire second half of the season while the Snyder-Ratjen duo have been strong contenders.

Y-12ers To Clash For Crown For Second Straight Year

Carl Dorr and Palo O'Neal, top Y-12 and Oak Ridge golfers, will meet in the finals of the All-Carbide Golf Tournament this coming week end. Dorr downed Jake Meece, Oak Ridge National Laboratory; while O'Neal trimmed fellow Y-12er Art Hines in the semi-finals. Only one stroke separated these rivals at the end, O'Neal firing a 73 to Hines' 74.

It is the second straight year that Y-12ers have met for the All-Carbide crown. Last year it was O'Neal beating Hines for the championship.

Four other Y-12ers reached the finals in lower flights. In the 12th Flight a pair of them will scrap for the trophy when Ray Whitehorn meets Sewell Brown. Whitehorn beat F. Nelson, K-25; while Brown beat Bob Finn, another Y-12er.

Newt Hamby, Y-12; beat Ed Gambill, a fellow employee, to reach the finals in the Sixth Flight and will meet C. F. Allen, K-25 in the finals.

Logan Emlet, Y-12; beat W. E. Williams, K-25, to reach the finals in the Ninth Flight.

Other Y-12 Losses Listed

Walt Sherrod, Y-12; lost to Ward Foster, ORNL; in the First Flight. J. Edgerton, ORNL; beat H. D. Duncan, Y-12; in the Fourth Flight. Harold Ratjen, Y-12; lost to R. A. Snead, K-25; in the Eighth Flight. T. Kwasnaski, K-25; defeated Gentry Underwood, Y-12; in the 11th Flight.

Blanket Finish Set For Ridge Golfers

A blanket finish in which the winner will not be known until this week's play is completed is assured in the Y-12 Plant Golf League at Oak Ridge. Either one of three teams can cop the second half of the season honors as matters stood at the beginning of the week.

At that time the Elmore Koons-John Smith pair had the best mark in the loop with 30½ points won and 17½ lost. This team has completed its schedule, drawing a bye for this week. However, with two matches to play this week, Art Hines and Logan Emlet had a 23½ won and 12½ lost record and would have to win eight points out of a possible 12 to maintain their lead and take the crown. The Paddy Peckman-Jay Holzknicht team with a 21 and 15 record and first half winners, also had a chance with two matches to play. One of the two matches for each of these teams is against each other—so the divots and fur will be flying.

In play last week Smith-Koons won from Mitchel-Mathews, Boyd-Oliphant took Snyder-Ratjen and Orrison-Saylor trimmed Peterson-Patterson, all victories by six points.

League standing follows:

Team	W	L
Hines-Emlet	23½	12½
Smith-Koons	30½	17½
Holzknicht-Peckman	21	15
Boyd-Oliphant	24	18
Snyder-Ratjen	20½	21½
Orrison-Saylor	20	22
Mitchell-Mathews	18½	23½
Peterson-Patterson	15	21
Underwood-McLendon	7	29

Softball Closing Expected This Week; Playoffs, 'World Series' Will Follow

Barring further weather interruptions, the regular schedule of the two Y-12 plant softball leagues will be completed this week. Close races again are being staged in both the American and National Leagues and the winners probably will be in doubt until the final games are staged.

After the second half winners are determined, a two out of three game playoff series will be staged in each circuit between the first and second half of the season winners. Then the league champions will battle in a "world series" for the plant title. The Bombers were American League champions in the first half of the season while the Ridgerunners took the National League crown.

In games through last Thursday night Beta Two held a five game winning streak without a loss in the National League for undisputed possession of first place. In the American loop the Sunflowers had won four and the Uranium Control Junior Varsity three, both without losses, to top that league.

Spradlin Wins Twin-Bill

The feature of play in games through last Thursday was a double-header win by Beta Two over the Ridgerunners by 8 to 3 and over the Bums by 4 to 3. R. B. Spradlin, probably the oldest player in the league at "more than 40," pitched both games for Beta Two. He allowed the Ridgerunners only three bingles and six to the Bums. Timely hitting by his mates brought victories in both games.

Beta Four had a field day against the Madcaps, romping to a 19 to 5 win in a slugfest. However, the Bums caught up with the Beta Four lads by walloping them 17 to 7.

The Ridgerunners added two wins by forfeits from the D Doodies and Sparkplugs. The Doodies also forfeited to the Bums.

One of the wildest battles of the

season was staged in the American League when the Bombers pulled a spectacular 11-run rally in the sixth round and tallied four more in the last of the seventh to edge the Vols by 17 to 16. The high-flying Vols had piled up a big early lead before the Bomber bats began to boom.

The ADP team took forfeits from the Wildcats and Dirty Niners while UCJV added a win by the same route from the Rebels.

Standing of the leagues and results through last Thursday night follow:

AMERICAN LEAGUE STANDINGS

Team	W	L
Sunflowers	4	0
UCJV	3	0
Rebels	3	1
Bombers	3	1
Wildcats	2	2
Vols	1	2
ADP	2	4
Dirty Niners	0	6

NATIONAL LEAGUE STANDINGS

Team	W	L
Beta Two	5	0
Ridgerunners	4	1
Beta Four	2	1
Engineers	1	1
Sparkplugs	1	2
Madcaps	1	2
Bums	1	3
D Doodies	0	3

AMERICAN LEAGUE RESULTS

Team	R	H	E
Vols	350	41	2
Bombers	002	001	4
Low and Frazier, Hatmaker and Shotts.			

NATIONAL LEAGUE RESULTS

Team	R	H	E
Ridgerunners	300	000	0
Beta Two	520	001	8
Hill and Meers, Spradlin and Winkle.			

Team	R	H	E
Beta Two	000	31x	4
Bums	300	00x	3
Spradlin and Winkle, Turner and Fraley.			

Team	R	H	E
Beta Four	238	102	3
Madcaps	001	400	0
Hawkins and Osborne, Cox and Zehner.			

Team	R	H	E
Beta Four	106	000	0
Bums	434	015	7
Jenkins, Hawkins and Osborne, Jenkins, Turner, Emory and Fraley.			

You have no more right to consume happiness without producing it than to consume wealth without producing it.—G. B. Shaw.

NEW BOWLING LEAGUE APPLICATION

I am interested in helping to organize and playing in a new bowling league for Y-12 employees.

NAME _____ PLANT PH. _____

SHIFT _____ BLDG. NO. _____

UNION CARBIDE NUCLEAR COMPANY

A Division of

Union Carbide And Carbon Corporation

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Continued from Page 2
at Oak Ridge Hospital . . . R. W. White is vacationing — dunno where.

Faye Duncan, Special Testing, is enhancing the charms of Daytona Beach for a couple of weeks . . . V. C. Jackson speedadded to Kansas . . . Helen Clark commuted up to Connecticut.

Andy Fowler, Development Operations, is trying to find out if Texas is really "that big!" . . . Sam Campbell was satisfied to go to Indiana . . . Paul Wilkinson went to Watts Bar Lake—for the usual reason, it is presumed . . . New employees R. P. Levy and John Hurst are welcomed to the gang.

J. C. Little and J. T. Blackmon, Chemical and Industrial Engineering, were not disturbed by the damage over at Myrtle Beach, S. C., so are vacationing there this week . . . J. E. Miller just stayed at home in Knoxville.

B. B. Bell, Instrument Engineering, chose Hot Springs, Ark., (where it REALLY gets hot) for his vacation.

T. K. Bishop, Jr., Electrical Engineering, is resting up this week at home in Powell.

MANUFACTURING OFFICE

R. R. Tippy, Manufacturing Office Division, is visiting folks in Illinois this week.

Ed Penland, Cashier and Travel Office, picked North Carolina and Danville, Va., for his vacationing.

Ira Shotts, Timekeeping, is down in Alabama . . . Lucille Hatmaker, and her husband, Gib, of ADP, are seeing sights in Cincinnati and Chicago.

Mary Goss, Property, is vacationing at Crossville . . . Get-well wishes are sent again to Dee Asbury, still at Oak Ridge Hospital.

Paul Snodgrass, Receiving and Shipping, is on the vacation list.

The Mail Room missed Dot Park, out ill last week . . . A welcome back was given Arvel Weldon, returning after an illness.

Engineering Files sends get-well wishes to Freddie Jeffers and Laura Gibbs . . . Jimmy O'Kain is visiting in North Carolina.

Ella Mae Koontz, Reproduction is at home in Knoxville this week.

That Ross Eichorn, Property Sales, was in New York again last week—He also had his son, Jimmy, home on furlough from the Air Force . . . J. W. Stevison is vacationing in Jacksonville, Fla. . . . S. F. Thomas also is a vaca-

UCC To Construct New Plant In Scotland

Polyethylene Plastics Production Planned

Plans for building a polyethylene plastics plant near Grangemouth, Scotland, have been announced by Morse G. Dial, President of Union Carbide and Carbon Corporation. The plant will be operated by Gemec Chemicals Company, a subsidiary of Union Carbide, Limited.

The capacity of the new Scottish plant will be about 26,000,000 pounds of polyethylene each year. The plastics will be sold by Bakelite, Limited, another subsidiary.

Cost To Exceed \$12,000,000

The Scotland plant will be the first polyethylene plant built by Union Carbide in Europe. It will cost upward of \$12,000,000.

In the United States Union Carbide is producing polyethylene at its plants at Seadrift and Texas City, Tex., and at South Charleston, W. Va., all operated by Carbide and Carbon Chemicals Company. A fourth plant, now under construction at Torrance, Cal., is scheduled to begin production next year. The Torrance plant is headed by C. N. Rucker, a former Y-12 Plant Superintendent.

Montreal Plant Being Built

In addition, Union Carbide is building a polyethylene plant at Montreal, Canada, that is scheduled for completion early in 1957. This will bring UCC's total polyethylene capacity, when the Scotland plant is ready for operation the same year, to approximately 290,000,000 pounds per year.

It has been predicted that polyethylene will be the first billion-pound-per-year plastic, because of the rapid expansion of applications of the product.

tioner . . . H. L. Pace is settling down in his new home in South Clinton—he also launched a new house boat recently . . . Sympathy is extended E. Kimolin, whose grandmother died last week.

E. A. Almgren, Material Expediting, also is a part-time New Yorker for a week or so.

John Rohland, Material Control, is seeking cooling breezes in Pennsylvania and in the Thousand Islands of New York . . . Wilma Deadrick is visiting her parents in Wisconsin.

Zollie Kidwell, Stores, is in Florida.

A gent telephoned police headquarters to report thieves had been at work on his automobile.

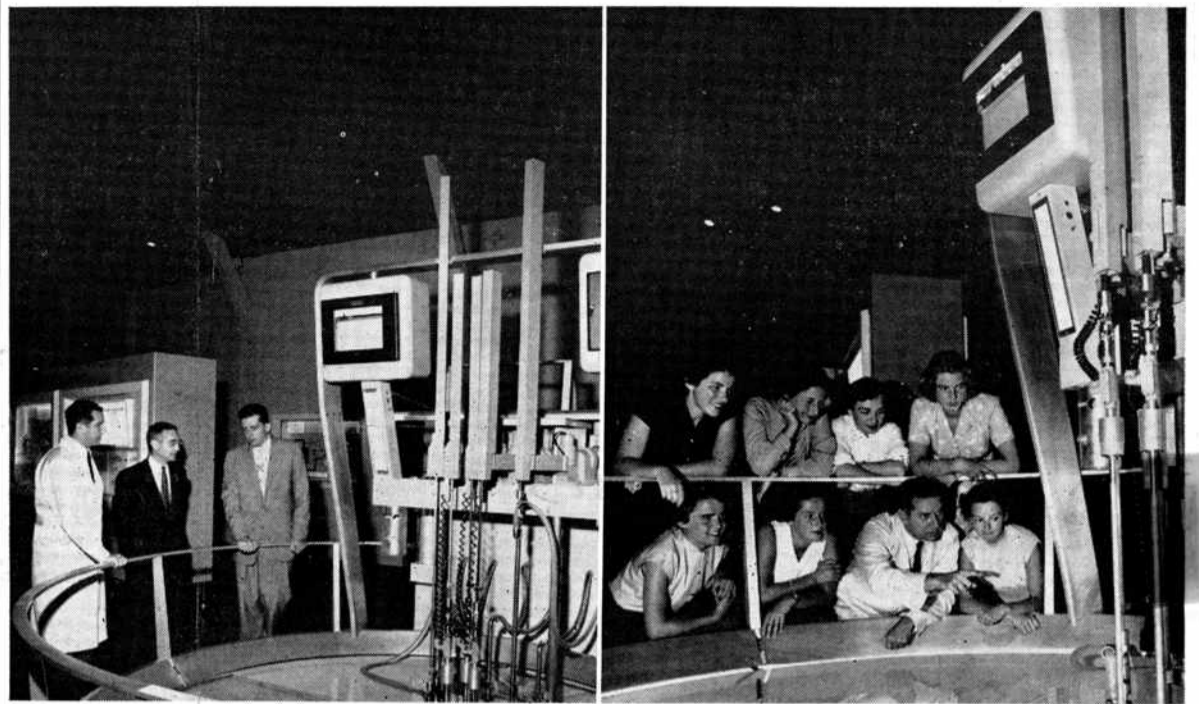
"They've stolen the steering wheel, the brake pedal, accelerator, clutch pedal and the dashboard," he complained.

The officer said the cops would investigate. Then came a return call.

"Don't bother," said the same voice, somewhat in its cups, "I got in the back seat by mistake."

So the Colyum Conductor is getting out of this back seat—but quick—for this week.

Shoot for the sun and you may hit a star.—P. T. Barnum.



TWO UNION CARBIDE NUCLEAR COMPANY SCIENTISTS WELL KNOWN BY Y-12ERS THROUGH THEIR several years of work in the Y-12 Plant Area have active roles in the Union Carbide and Carbon Corporation's "swimming pool" reactor exhibit at the International Council on Peaceful Uses of Atomic Energy at Geneva, Switzerland. They are Dr. Charles E. Winters and Dr. Francois Kertesz. In the picture at left are Kertesz, Dr. Alvin Weinberg, Research Director at Oak Ridge National Laboratory, and Winters, project engineer for the reactor. At right Kertesz is enjoying the pleasant task of instructing a group of attractive young women guides at the exhibit on details of the reactor.

Rides Wanted, Offered

Riders wanted from Washington Pike or Valley View Road, Knox County, to East or West Portals, straight day, C. P. Tudor, plant telephone 7-8382, home telephone 5-2780, Knoxville.

Riders wanted from South or West Knoxville to East or West Portals, straight day. Bill Hood, plant telephone 7-8382, home telephone 7-2412.

Ride wanted or will join car pool from Harriman, G Shift, H. E. Burns, plant telephone 7222, home telephone 1474-J, Harriman.

Want to join car pool from Clinton to North Portal, straight day, Tom Walters, plant telephone 7331, home telephone 134, Clinton.

Riders wanted from Burlington section, Knoxville, to any portal, straight day, Carl Zehner, plant telephone 7972.

Want to join car pool from Knoxville city limits via Oak Ridge Highway to Bear Creek Portal, straight day. H. L. Goldston, plant telephone 7972.

Ride wanted from Clinton to Central Portal, straight day. Clyde Brewer, plant telephone 7735, home telephone 981-W, Clinton.

Riders wanted from Park City and North Knoxville to any portal, straight day, W. E. Roark, home telephone 4-4335, Knoxville.

Two riders wanted from LaFollette to Central Portal, E. Shift, James Claiborne, plant telephone 7076.

Three riders wanted from Jacksboro to any portal, C Shift, E. M. Baird, plant telephone 7979.

Two riders or car pool participants wanted from Clinton or South Clinton to Bear Creek Portal, straight day. C. B. Bridges, plant telephone 7468.

Ride wanted from Fountain City to any portal, straight day, Richard LaForge, plant telephone 7365, home telephone 6-1838, Knoxville.

Want to join car pool from vicinity Florida Ave., Oak Ridge, to North Portal, straight day. W. S. Milligan, plant telephone 7920, home telephone 5-8952, Oak Ridge.

Ride wanted from 4425 Buffat Mill Road, Knoxville, to North Portal, straight day. Kenneth Murphy, plant telephone 7993, home telephone 4-0950, Knoxville.

STEEL DEMAND GROWS

Arthur B. Homer, president of United States Steel Corp., has stated that steel demand will hit about 190,000,000 tons annually within 15 years, some 50 per cent more than current United States capacity.

AEC Official Says Licensing Program Safeguarded To Insure National Security

Safeguards are placed around the licensing program of the Atomic Energy Commission in its efforts to encourage scientific and industrial peacetime uses of the atom to make the plan consistent with the common defense and security of the country as well as to carry out the objectives of promoting world peace, according to Harold L. Price, director of the division of licensing for the Atomic Energy Commission in a recent address to the Atomic Industrial Forum in New York.

Public Must Be Protected

He pointed out that the AEC policy and law provides for support of development of atomic energy to advance the cause of world peace through improvement of general welfare and increase in the standards of living. Regulations established for the program must, he said, be set up to avoid jeopardizing the health and safety of the public as well as the national security.

"Our approach to this task," he declared, "is to ask ourselves 'Is this regulation necessary to the discharge of our responsibility for public health and safety?' In giving out restricted data necessary to carry out the program it is necessary to balance the risk that it will get into the hands of an unfriendly nation against the great good it can do in the hands of science and industry."

Could Be Weapon Or Fuel

"We have to remember that the special nuclear material can be the basic ingredient of a nuclear weapon as well as fuel for a nuclear reactor that can produce power for peaceful purposes."

One of the safeguards placed by the Atomic Energy Act is the requirement that before any dealings for export of nuclear material abroad can be made, a bilateral agreement must have been entered into between the United States and the foreign government involved that those atomic activities would not be inimical to the interests of the United States. Such an agreement must precede any licensing by the AEC of use of nuclear material or restricted data abroad for facilities such as reactors, isotope separation plants, chemical separation plants and fuel element fabrication plants.

Plans To Downgrade Data

In his talk, Price continued to stress the intent of the AEC to do its utmost, within the law, to aid foreign and domestic users of atomic energy for peace and pointed out that the regulations dealing with safeguarding restricted data is "pretty much an adap-

CAFETERIA SPECIAL LUNCHEES TO FEATURE APPETIZING ENTREES

Appetizing entrees will be presented patrons of the Y-12 Cafeteria on the 50-cent Special Lunches tomorrow, Thursday, August 25, and next Tuesday, August 30. For tomorrow the main dish will be stuffed bell pepper with cheese topping and on next Tuesday weiners and baked beans will be the entree. One vegetable, choice of salad or dessert and rolls and butter complete the lunch.

tation of information control procedures that have been in effect within the Commission program since its beginning."

"The Commission," he declared, "is vigorously pursuing a program involving the review of all reports and other data in the peacetime field to downgrade or declassify as much information as possible consistent with national security."



Question: What are the advantages of borrowing money from the Y-12 Credit Union to purchase such articles as air conditioners, washing and ironing machines, furniture and similar articles?

Answer: The principal advantages are the better buys that can be had by paying cash and the wider variety to select from. In most cases, prices are slashed considerably for cash buyers and interest charged by loans by the Y-12 Credit Union is usually below the interest and carrying charges normally imposed by credit buying from merchants.

DID YOU KNOW THAT?

